

ABSTRACT OF THE DISCLOSURE

The present invention, in various embodiments, provides techniques for adding capabilities to a debugger for a user to debug a program more efficiently. In one embodiment, when the debugger and the program are run, one or more breakpoints are reached. At each breakpoint, the program is stopped, a debugging prompt is provided to the user, and the user enters debugging commands. In one embodiment, to execute the user's commands, the debugger, based on the commands, requests an instrumentor to create the debugging code in the executable context of the program under debug. The user then allows the program to continue execution. Because the debugging code is an executable part of the program, it is executed when it is reached while the program is being executed, resulting in faster execution of the debugging commands.